

Docket No. DMGM-01

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : George P. Pollack
Serial No. :
Filed :
For : INSULATION DISPLACEMENT ELECTRICAL PLUG ASSEMBLY
AND METHOD OF MAKING PLUG ASSEMBLY

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner
for Patents
Washington, D.C. 20231

SIR:

In keeping with the duty of candor and good faith owed to the U.S. Patent and Trademark Office, applicant wishes to make of record the items on attached PTO Form 1449. A copy of the items is provided in accordance with 37 CFR 1.98.

U.S. Pat. No. 2,229,288 to Gilbert discloses an electrical connector which includes a body 1 and contact elements 2, 3. The body 1 defines a recess 9 for each contact element and an opening 10 through which the end of an electrical cord can be passed. The bare end 17 of each conductor is pinched between legs 5 and 6 of the contact element. The insulated portion of the conductor is pinched between the lower end of leg 5 of the contact element and rib 16 in the bottom of the recess 9. The insulated portion of the conductor curves sharply over rib 16 into the opening 10.

U.S. Pat. No. 2,283,889 to Gilbert discloses an electrical connector which includes a body 1 and contact elements 2, 3. The body 1 defines a recess 11 for each contact element and an opening 15 through which the end of an electrical cord can be passed. The bare end of each conductor projects a little above the other end of the plug body 1 V-shaped portion 17. The free end of long leg 5 of the contact element is then used to press the bare end of the conductor against the outer end of the recess 11. The bare end of the conductor is folded around the end 7 of the contact element. The insulated portion of the conductor is jammed into groove 20 and

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bent sharply over its bottom edge before it enters the opening 15.

U.S. Pat. No. 2,312,795 to Brownstein discloses a connector plug which includes a body 10 provided with blade slots 11 for receiving and supporting a pair of contact blades 12. A cavity 16 merges with the blade slots 11 so that individual conductors of the cable 14 can be led up into the blade slots. A lug 17 spaces the wires. Bared ends of the wires are placed in the blade slots 11. The blades 12 are then inserted into their respective slots until the bared ends of the wires are tightly clamped against the end wall of each blade slot. Tangs 19 project toward each other and anchor the blades in the blade slots.

U.S. Pat. No. 2,511,806 to Macy discloses an electrical connector which includes a double width tongue portion having two halves 2 and 4 and a ferrule part 8 rolled up into cylindrical form for receiving a wire end. The ferrule part 8 is crimped after a wire has been inserted. The ferrule part 8 may have a U-shaped form to be closed forming a ferrule in direct engagement with a wire by means of a crimping die. The free ends of the U-shaped form in the ferrule-forming portion are curled over in the crimping die and driven back into the wire.

U.S. Pat. No. 2,966,651 to Von Holtz discloses a three to two-wire plug adapter with grounding pigtail which includes an insulating body member 11 provided with a pair of laterally spaced chambers 12, 13 and elongated slots 14, 15 for insertion of blade contacts to engage receptacle contacts 16 mounted in the chambers 12 and 13.

U.S. Pat. No. 3,134,632 to Kimball et al. discloses an electrical connector which includes a plug body 9 which surrounds the bared ends of conductors 5 and associated blade shank sections 11 and 12. A pair of flaps or tabs 21 are formed on portion 11 near the bottom of the blade 3. The tabs 21 may be crimped against the bared end of the conductor 5.

U.S. Pat. No. 3,248,686 to Ruehlemann discloses a contact 10 with a locking feature which includes a bifurcated mating section 12, a body section 14 and a tail section 16. The tail section 16

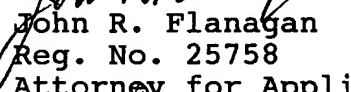
comprises first and second grasping means 44, 46. The first grasping means 44 includes a pair of generally triangular wings 48 joined by a bridging section 49. The second grasping means 46 includes a pair of relatively square wings 50 joined by a bridging section 52. A conductive member 61 is placed between the wings 50 which are then crimped in order to provide a secure electrical connection. The wings 48 are then folded upon the insulation 60 in order to provide a secure mechanical connection.

U.S. Pat. No. 3,400,360 to Schmitt et al. discloses an electrical plug with a flexible contact member 1 which includes two pairs of tongues 2 joined at common end 3 which is adapted at 4 to be connected to a conductor.

U.S. Pat. No. 4,792,309 to Chu discloses an electrical plug with molded on prongs and detachable wire loops which includes a body 1, a cover 10 and connecting electrical wires 11 tied with loops 13 at their bare ends.

U.S. Pat. No. 5,567,187 to Bellinger discloses a reverse insulation grip blade which includes a conducting wire attachment area 26 at one end of the blade 22. Crimps 40, 42 are provided for electrically connecting the blade 22 and a wire 36 at the attachment area 26. The crimps 40, 42 are closed over the wire 36. The crimp 40 has opposing crimp arms 44 and a base 50. The crimp 42 has opposing crimp arms 52 and a base 54.

Respectfully submitted,


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